

Docket No 00-0337

**ICC Staff Exhibit 4.00**

## Schedule 4.02 K

### Cost of Service Study "Plant in Service Allocation"

Act.	Account	Utility	Depreciation	Net	Base	Extra Capacity	Customer Costs	Fire	Alt.			
No.		Cost	Reserve	Cost	Cost	Max Day	Max Hour	Billing	Meier	Services	Service	Code
GENERAL PLANT												
303	Land and land rights	35,116	0	35,116	12,643	6,213	5,482	0	2,880	6,211	1,666	9
304	Structures and improvements	595,454	57,605	537,849	193,649	95,165	83,972	0	44,114	95,134	25,825	9
340	Office furniture	828,166	37,361	790,805	278,724	139,937	123,465	0	64,861	139,937	37,971	9
341	Transportation	714,597	85,729	628,868	226,420	111,258	98,182	0	51,579	111,234	30,195	9
342	Stores	5,736	16,117	(10,381)	(3,738)	(1,837)	(1,621)	0	(651)	(1,836)	(498)	9
343	Tools etc	947,050	120,829	826,221	163,458	75,405	66,544	0	34,958	75,390	20,465	9
344	Laboratory	91,402	9,826	81,576	23,371	14,432	12,736	0	6,691	14,429	3,917	9
345	Power operated	228,096	34,131	193,965	69,896	34,316	30,283	0	15,909	34,308	9,313	9
346	Communications	251,778	30,359	221,419	79,720	39,173	34,569	0	18,161	39,164	10,631	9
347	Miscellaneous	7,132	0	7,132	2,588	1,282	1,113	0	565	1,262	342	9
348	Data Processing Equip	0	0	0	0	0	0	0	0	0	0	9
399	RECONCILIATION	0	0	0	0	0	0	0	0	0	0	9
TOTAL PLANT IN SERVICE		48,259,607	11,340,272	36,919,335	13,336,223	6,519,073	5,752,905	0	3,022,232	6,517,943	1,789,259	9
Allocation Code 9		Cross check =		36,919,335	36.00%	17.69%	15.61%	0.00%	8.20%	17.69%	4.80%	
Calculation				Total	Base Cost	Max Day	Max Hour					
Small Main Plant In Service												
Small Main CIAC				5,948,761	3,203,594	1,577,113	1,162,084					
Total Plant CIAC				3,334,523	1,789,091	884,036	651,395					
				8,350,060	4,613,056	2,266,760	1,670,244					
Allocated Total Plant less General												
% Small Main to Allocated Total Plant						12,288,571	6,003,787		5,298,179			
Small Main with General Plant Allocated						28.12%	26.27%		21.93%			
Small Main with General Plant Allocated less CIAC						3,483,432	1,712,472		1,261,821			
Allocated Total Plant less CIAC						1,694,340	828,436		610,426			
% Small Main less CIAC to Allocated Total Plant less CIAC						8,725,169	4,252,312		19.48%		14.95%	

Act	Account	Utility	Utility	Staff	Net	Base	Extra Capacity	Max Day	Max Hour	Billing	Customer Costs	Meier	Services	Fire	Alloc.
No.		1999 Cost	Cost	Adjust.	Cost	Cost								Service	Code
	SOURCE OF SUPPLY														
601	Salaries and Wages	38,095	40,095	0	40,095	26,884	13,210								2
610	Purchased water	0	0	0	0	0									1
615	Purchased Power	123,933	114,083	0	114,083	114,083									1
616	Fuel for Power Prod.	0	0	0	0	0									1
618	Chemicals	0	0	0	0	0									1
	SOURCE OF SUPPLY														
620	Materials and Supplies	3,217	3,386	0	3,386	2,270	1,116								2
631	Contractual Serv.	0	0	0	0	0	0								2
635	Contractual Serv. - Testing	0	0	0	0	0	0								2
636	Contractual Serv. - Other	9,581	10,084	0	10,084	6,761	3,322								2
641	Rental of Property	0	0	0	0	0	0								2
642	Rental of Equipment	239	252	0	252	169	83								2
660	Transportation Exp.	466	522	0	522	350	172								2
658	Insurance	0	0	0	0	0	0								2
668	Water Res. Conv. Exp.	0	0	0	0	0	0								2
675	Misc. Expenses	3,689	3,883	0	3,883	2,604	1,279								2
	PUMPING EXPENSES														
601	Salaries and Wages	101,949	107,300	0	107,300	57,882	28,447								12
615	Purchased Power	125,073	115,133	0	115,133	115,133									1
616	Fuel for power production	576	606	0	606	606									1
620	Materials and Supplies	3,015	3,173	0	3,173	1,712	841								12
631	Contractual Serv.	0	0	0	0	0	0								12
635	Contractual Serv. - Testing	0	0	0	0	0	0								12
636	Contractual Serv. - Other	3,901	4,105	0	4,105	2,215	1,088								12
641	Rental of Property	0	0	0	0	0	0								12
	PUMPING EXPENSES														
642	Rental of Equipment	949	989	0	989	539	265								12
650	Transportation Expenses	2,081	2,190	0	2,190	1,182	581								12
658	Insurance	0	0	0	0	0	0								12
675	Misc. Expenses	6,192	6,517	0	6,517	3,516	1,728								12
	WATER TREATMENT EXPENSE														
601	Salaries and Wages	291,403	306,697	0	306,697	205,646	101,050								2
615	Purchased Power	123,381	113,575	0	113,575	76,154	37,421								2
616	Fuel for power production	0	0	0	0	0	0								2
618	Chemicals	278,026	287,252	0	287,252	287,252									1
620	Materials and Supplies	48,833	51,396	0	51,396	34,462	16,934								2

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Revenue Requirement Allocation"

Act	Account	Utility	Staff	Net	Base	Extra Capacity	Customer Costs	Fire	Alloc.
No.		Cost	Adjust	Cost	Cost	Max Day	Billing	Meier	Code
	WATER TREATMENT EXPENSE								
631	Contractual Serv.	201,989	0	212,590	142,546	70,044	0	653	13
635	Contractual Serv. - Testing	0	0	0	0	0	0	12,588	8,570
636	Contractual Serv. - Other	0	0	0	0	0	0	0	0
641	Rental of Property	0	0	0	0	0	0	0	0
642	Rental of Equipment	1,076	0	1,133	759	373	0	1,634	1,112
650	Transportation Exp.	8,803	0	9,285	6,212	3,053	0	29	20
658	Insurance	0	0	0	0	0	0	0	0
675	Misc. Expenses	14,825	0	15,603	10,462	5,141	0	76	52
	TRANSMISSION/DISTRIBUTION								
601	Salaries and Wages	131,997	0	138,924	67,636	28,329	0	3,444	2,345
661	Storage Facilities	919	0	967	160,451	78,842	0	0	0
662	Meas	282,559	0	297,388	0	58,094	0	0	0
663	Meas	2,186	0	2,301	0	0	0	0	0
664	Services	42,160	0	44,373	0	0	0	0	0
615	Purchased Power	38,234	0	35,195	35,195	0	0	0	0
616	Fuel for Power Prod.	0	0	0	0	0	0	0	0
	TRANSMISSION/DISTRIBUTION								
618	Chemicals	0	0	0	0	0	0	0	0
620	Materials and Supplies	36,115	0	38,010	18,506	7,751	0	3,444	2,345
672	Dist. reservoirs and standpipes	0	0	0	0	0	0	0	0
631	Contractual Serv.	0	0	0	0	0	0	0	0
635	Contractual Serv. - Testing	0	0	0	0	0	0	0	0
636	Contractual Serv. - Other	17,129	0	18,028	8,777	3,676	0	1,634	1,112
641	Rental of Property	308	0	324	158	66	0	29	20
677	Hydrants	28,702	0	30,208	407	170	0	76	52
642	Rental of Equipment	794	0	836	42,764	21,013	0	0	0
650	Transportation Exp.	75,308	0	79,260	5,597	2,344	0	1,042	709
658	Insurance	0	0	0	0	0	0	0	0
675	Misc. Expenses	10,922	0	11,495	0	1,750	0	0	0
	CUSTOMER ACCOUNTS EXPENSE								
601	Salaries and Wages	406,864	0	428,218	0	0	0	0	0
615	Purchased Power	3,972	0	3,656	0	0	0	0	0
616	Fuel for Power Prod.	0	0	0	0	0	0	0	0
670	Bad Debt Expense	95,894	7,559	73,998	28,399	13,698	0	2,214	1,507
620	Materials and Supplies	28,170	0	29,648	0	4,570	0	0	0
	CUSTOMER ACCOUNTS EXPENSE								
631	Contractual Serv.	0	0	0	0	0	0	0	0
635	Contractual Serv. - Testing	0	0	0	0	0	0	0	0
636	Contractual Serv. - Other	150,148	0	158,028	0	0	0	0	0
641	Meier Reading	0	0	0	0	0	0	0	0
642	Rental of Equipment	11,149	0	11,734	0	0	0	0	0
650	Transportation Exp.	9,877	0	10,385	0	0	0	0	0
658	Insurance	0	0	0	0	0	0	0	0
675	Misc. Expenses	30,896	0	32,518	0	0	0	0	0

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Revenue Requirement Allocation"

Act	Account	Utility Cost	Shift Adjust.	Net Cost	Base Cost	Extra Capacity Max Day	Max Hour	Customer Costs Billing	Meter	Services	Fire Services	Allo. Code	
ADMINISTRATIVE AND GENERAL													
601	Salaries and Wages-employees	36,345	38,252	0	38,252	14,600	7,081	2,363	12,146	59	1,144	779	10
603	Salaries and Wages-officers	71,565	75,321	0	75,321	28,906	13,942	4,652	23,915	117	2,254	1,534	10
604	Pensions and benefits *	415,599	437,410	0	437,410	167,868	80,968	27,015	138,884	679	13,087	8,910	10
631-636	Outside services	1,051,043	1,106,203	(321,927)	784,276	300,987	145,176	48,438	249,019	1,217	23,465	15,975	10
615	Purchased Power	6,216	5,722	0	5,722	2,196	1,059	353	1,817	9	171	117	10
616	Fuel for Power Prod.	0	0	0	0	0	0	0	0	0	0	0	10
656-659	Insurance	117,065	122,433	(4,763)	117,670	45,159	21,782	7,267	37,362	183	3,521	2,387	10
641-642	Rents	9705	10,214	0	10,214	3,920	1,891	631	3,243	16	306	208	10
650	Transportation Exp.	7699	8,103	0	8,103	3,110	1,500	500	2,573	13	242	165	10
620	Materials and Supplies	42717	44,959	0	44,959	17,254	8,322	2,777	14,275	70	1,345	916	10
660	Advertising	44418	46,750	0	46,750	17,941	8,654	2,887	14,844	73	1,399	952	10
666-667	Regulatory Expense	204995	152,333	(89,235)	63,098	24,216	11,690	3,897	20,035	98	1,888	1,265	10
675	Misc. Expenses	2457	2,386	0	2,386	992	479	160	821	4	77	53	10
PRO FORMA ADJUSTMENTS													
Labor *		0	0	0	0	0	0	0	0	0	0	0	10
Fuel and Power		0	0	0	0	0	0	0	0	0	0	0	1
Chemicals		0	0	0	0	0	0	0	0	0	0	0	2
Waste Disposal		0	0	0	0	0	0	0	0	0	0	0	12
Management Fees		0	0	0	0	0	0	0	0	0	0	0	10
Group Insurance *		0	0	0	0	0	0	0	0	0	0	0	10
Pensions *		0	(4,513)	0	(4,513)	(1,732)	(835)	(279)	(1,433)	(7)	(135)	(92)	10
Regulatory Expenses		0	0	0	0	0	0	0	0	0	0	0	10
Insurance other *		0	0	0	0	0	0	0	0	0	0	0	5
Customer Accounting		0	0	0	0	0	0	0	0	0	0	0	10
Rents		0	0	0	0	0	0	0	0	0	0	0	10
General Office Exp		0	0	0	0	0	0	0	0	0	0	0	10
Miscellaneous		0	(12,389)	0	(12,389)	(4,755)	(2,293)	(755)	(3,934)	(19)	(371)	(252)	10
SUBTOTAL OPER. & MAINT.		4,805,449	4,898,071	(425,288)	4,472,803	2,088,044	741,443	234,895	1,211,258	5,900	113,793	77,489	10
RECONCILIATION													
TOTAL OPERATION & MAINTENANCE		4,898,071	(425,287)	1	4,472,804	2,088,044	741,443	234,895	1,211,259	5,900	113,793	77,489	10
Depreciation		1,320,901	(71,212)	0	1,249,689	359,533	164,399	87,977	225,644	311,629	100,507	22,147	9
Other Taxes		549,041	(87,763)	0	461,258	168,073	81,605	72,014	0	37,832	81,587	40,545	9
Income Taxes		945,337	(100,910)	0	844,427	304,031	149,394	131,836	0	69,259	149,362	117,387	9
Utility Operating Income		2,590,183	(135,379)	0	2,444,804	890,236	432,530	381,696	0	200,520	432,435	358,056	9
TOTAL REVENUES REQUIRED		10,293,533	(820,551)	0	9,472,982	3,197,917	1,569,371	908,419	1,211,259	539,156	1,088,805	358,056	9
Less Special Tariff Revenues				0		0							
DIRECT CUSTOMER REVENUES					9,472,982	3,197,917	1,569,371	908,419	1,211,259	539,156	1,088,805	358,056	
Cross check =		9,472,982			9,472,982	3,197,917	1,569,371	908,419	1,211,259	539,156	1,088,805	358,056	
If available insert Labor Percentages (Code 11) from utility will affect items followed by *													
		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

If available insert  
Labor Percentages (Code 11) from utility  
will affect items followed by \*

0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Revenue Requirement Allocation"

	Net Cost	Base Cost	Max Day	Max Hour		
Acct 662 allocated to small mains	116,070	62,624	30,772	22,674		
Small mains with overhead	204,809	110,502	54,298	40,009		
Total Expense less Adm. & General and less Pro Forma Adjustments		1,831,943	617,917	193,681		
% Small Mains to Total Expense		6.03%	8.79%	20.66%		
Small Mains with Adm. & General and Pro Forma Adjustments* Allocated		125,949	66,163	48,523		
Depreciation		69,406	32,028	13,154		
Other Taxes		32,069	15,898	10,767		
Income Taxes		58,691	29,105	19,712		
Utility Operating Income		169,924	84,265	57,070		
TOTAL REVENUES ALLOCATED TO SMALL MAINS		456,030	226,450	149,226		
* excluding Fuel & Power, Chemical and Waste Disposal						
Revenue Requirement from Small Mains						
Residential	435,304	189,877	191,354	0	15,170	831,706
Remove From	567,158	220,797	40,167	0	3,584	831,706
Reallocate to Blocks	131,854	30,920	(151,188)	0	(11,586)	(0)
Net Adjustment						
Commercial						
Industrial						
Pub Aut						
Sale for Resale						
Total						

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Customer Group Allocation Factors"

Customer Class	Annual Consumption				Max Day				Max Hour				Commercial		Equivalent Meters		Equivalent Services	
	Usage	MGD	%	% of Ave.	Amt. MGD	Excess MGD	%	% of Ave.	Amt. MGD	Excess MGD	%	% of Ave.	Monthly Bills	%	Monthly No.	%	Monthly No.	%
Residential	1,900,383	3.894	41.13%	250%	9.736	5.842	64.14%	300%	11.683	7.789	44.14%	233,042	91.33%	244,986	76.72%	235,762	89.18%	
Commercial	1,060,029	2.172	22.94%	180%	3.910	1.738	19.08%	250%	5.431	3.259	18.46%	18,972	7.44%	59,801	18.73%	26,498	10.02%	
Industrial	1,485,220	3.064	32.36%	130%	3.983	0.919	10.09%	150%	4.596	1.532	8.68%	732	0.29%	13,416	4.20%	1,998	0.76%	
Public Authority	0	0.000	0.00%	140%	0.000	0.000	0.00%	160%	0.000	0.000	0.00%	0	0.00%	0	0.00%	0	0.00%	
Retail	118,540	0.243	2.57%	130%	0.316	0.073	0.80%	150%	0.364	0.121	0.69%	24	0.01%	1,110	0.35%	108	0.04%	
SUBTOTAL	4,574,172	9.374	99.01%		17.946	8.572	94.11%		22.075	12.701	71.97%	252,770	99.06%	319,312	100.00%	264,366	100.00%	
Fire Prot.	45,742	0.094	0.99%		0.630	0.536	5.89%		5.040	4.948	28.03%	2,388	0.94%	-----	-----	-----	-----	
TOTAL	4,619,914	9.468	100.00%		18.576	9.108	100.00%		27.115	17.647	100.00%	255,158	100.00%	319,312	100.00%	264,366	100.00%	

Number of public fire protection bills ignored as immaterial  
No services assigned to public fire protection; services considered to be part of hydrants.  
No services assigned to private fire protection since customer generally pays for service line.  
Fire Protection Consumption set at 1% of other consumption.

Consumers Illinois Water Company ILLINOIS COMMERCE COMMISSION  
Docket No 00-0337 Cost of Service Study  
ICC Staff Exhibit 4.00 "Percent Allocation to Customer Groups"  
Schedule 4.02 K

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DESCRIPTION	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUBLIC AUTHORITY	SALES FOR RESALE	FIRE PROT	TOTAL
Base	41.13%	22.94%	32.36%	0.00%	2.57%	0.99%	100.00%
Maximum Day	64.14%	19.08%	10.09%	0.00%	0.80%	5.89%	100.00%
Maximum Hour	44.14%	18.46%	8.68%	0.00%	0.69%	28.03%	100.00%
Commercial	91.33%	7.44%	0.29%	0.00%	0.01%	0.94%	100.00%
Meters	76.72%	18.73%	4.20%	0.00%	0.35%	—	100.00%
Services	89.18%	10.02%	0.76%	0.00%	0.04%	—	100.00%
Fire Service-Hyd	—	—	—	—	—	100.00%	100.00%

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Percent Allocation to Customer Groups"

DESCRIPTION	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUBLIC AUTHORITY	SALES FOR RESALE	FIRE PROT	TOTAL
Base	1,562,258	871,424	1,229,183	0	97,449	37,603	3,797,916
Maximum Day	1,006,571	299,447	158,394	0	12,557	92,402	1,569,370
Maximum Hour	400,948	167,736	78,866	0	6,252	254,616	908,419
Commercial	1,106,272	90,062	3,475	0	114	11,336	1,211,259
Meters	413,656	100,973	22,653	0	1,874	—	539,156
Services	970,998	109,134	8,229	0	445	—	1,088,805
Fire Service-Hyd	—	—	—	—	—	358,056	358,056
Adjustments *	(61,124)	(18,344)	(16,799)	0	(1,329)	(4,252)	(101,847)
Small Main Adjustment	131,854	30,920	(151,188)	0	(11,586)	—	(0)
TOTAL COST OF SERVICE	5,531,433	1,651,351	1,332,814	0	105,777	749,760	9,371,134
Percent of COSS	59.03%	17.62%	14.22%	0.00%	1.13%	8.00%	100.00%

\* for Other and for Unbilled

Special Tariff Revenues	0
Other Operating Revenues	53,423
Unbilled Revenues	48,424
Total Revenues	9,472,981

FIRE PROTECTION	Equiv. Conn.
Public, monthly	25,236
Private, monthly	3,829
Total Equiv. Connections	29,065
Total Fire Protection per Cost of Service Study	749,760
Less Billing Costs	11,336
Less Hydrant Costs	358,056
Total Non-hydrant Fire Protection Costs	380,368
Total Non-hydrant Fire Protection Costs Per Equiv. Connection, monthly	13.09
Public Fire Protection Connection Costs	330,258
Plus Hydrant Costs	357,207
Total Public Fire Protection Costs	687,465
Total Private Fire Protection Connection Costs	50,110
Plus Billing Costs	11,336
Plus Hydrant Costs	849
Total Private Fire Protection Costs	62,296

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Private Fire Protection Rates"

Private Fire Prot.	Ratio #	Monthly COSS Rates	Monthly Staff Rates
less than 3"	0.056	5.47	5.00
3	0.162	6.86	7.00
4	0.344	9.25	9.00
6	1.000	17.83	18.00
8	2.131	32.64	33.00
10	3.832	54.90	55.00
12	6.190	85.76	86.00
16	13.192	177.38	177.00

# - ratio based on capacity



Customer	Per Hydrant Cx Hydrants	Total Cost	Municipal Paid	Customer Surcharge	MONTHLY BILLS					Fire Prot Bills	Equiv. Fire Prot Bills	Monthly Rates					Actual Surcharge Revenues
					5/8"	3/4"	1"	1 1/2"				5/8"	3/4"	1"	1 1/2"		
Total	2,103	687,465	0	687,465	232,620	7,812	7,560	5,508	253,600	230,778	0	0.00	0.00	0.00	0.00	0	688,248
Outside	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
Kankakee	700	228,828	0	228,828	100,218	648	3,132	2,184	106,182	119,940	0	1.91	2.87	4.78	9.55	229,104	0
Limestone	47	15,364	0	15,364	6,512	192	60	12	6,776	7,010	0	2.19	3.29	5.46	10.95	15,363	0
Kankakee Twp	114	37,266	0	37,266	2,223	72	84	228	2,607	3,681	0	10.12	15.18	25.30	50.60	37,252	0
Bradley	469	153,315	0	153,315	56,755	3,960	1,332	1,068	63,115	71,365	0	2.15	3.23	5.38	10.75	153,461	0
Mantero (IDCC)	70	22,883	0	22,883	60	456	60	312	888	2,454	0	9.32	13.98	23.30	46.60	22,871	0
Bourbonais T	115	37,593	0	37,593	16,367	444	636	216	17,663	19,703	0	1.91	2.87	4.78	9.55	37,639	0
Bourbonais	588	192,216	0	192,216	50,485	2,040	2,256	1,488	56,289	66,625	0	2.89	4.34	7.23	14.45	192,568	0
B	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
H	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
I	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
J	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
K	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
L	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
M	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
N	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
O	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
P	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
Q	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
U	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
V	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
X	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
Y	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
Z	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
AA	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
BB	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0
CC	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0

Total cost per fire protection customer based on number of Hydrants

Docket No 00-0337

Cost of Service Study

ICC Staff Exhibit 4.00

"Equiv. Meters and Services"

Schedule 4.02 K

ITEM	METER RATIO	SERVICE RATIO	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUB AUTH	RESALE	TOTAL
METER SIZE								
5/8" disk	1.0	1.0	223751	10930	108	0	0	234789
3/4" disk	1.5	1.1	5341	373	0	0	0	5714
1" disk	2.5	1.4	3140	3630	72	0	0	6842
1 1/2" disk	5.0	1.8	425	914	84	0	0	1423
2" disk	8.0	2.5	361	2417	156	0	0	2934
3" disk	15.0	3.0	24	504	144	0	0	672
4" disk	25.0	4.0	0	48	36	0	0	84
6" disk	50.0	5.0	0	24	24	0	0	48
8" disk	80.0	6.0	0	12	0	0	0	12
10" disk	115.0	6.5	0	0	0	0	0	0
12" disk	168.0	7.0	0	0	0	0	0	0
3" turbine	17.5	3.0	0	24	12	0	0	36
4" turbine	30.0	4.0	0	72	0	0	12	84
6" turbine	62.5	5.0	0	12	60	0	12	84
8" turbine	90.0	6.0	0	12	36	0	0	48
10" turbine	145.0	6.5	0	0	0	0	0	0
Parallel	?	?	0	0	0	0	0	0
Equiv Meters			244986	59801	13416	0	1110	319312
Equiv Services			235762	26498	1998	0	108	264366

Acct. No.	Account	Utility Depreciation	Staff Adjus.	Net Cost	Base Cost	Extra Capacity	Max Hour	Billing	Customer Class	Services	Fire Service	Alloc. Code
INTANGIBLE PLANT												
301	Organization	0	0	0	0							1
302	Franchise	0	0	0	0							1
303	Miscellaneous	0	0	0	0							1
SOURCE OF SUPPLY PLANT												
303	Land and land rights	2,646	0	0	0	0			0	0	0	13
304	Structures and improvements	781	0	781	524	257	0	0	0	0	0	13
305	Calculating resources	0	0	0	0				0	0	0	1
306	Intakes	1,394	0	1,394	929	455	1,615					2
307	Wells	483	0	483	324	159						2
308	Injection Galleries	0	0	0	0	0						2
309	Supply mains	0	0	0	0	0						2
309	Other plant	0	0	0	0	0						2
PUMPING PLANT												
303	Land and land rights	36,979	0	0	0	0			0	0	0	13
304	Structures and improvements	11,946	0	11,946	6,446	3,169	2,334	0	0	0	0	13
310	Power Generation Equip.	8,289	0	8,289	4,461	2,192	1,615					12
310	Other power production	0	0	0	0	0			0	0	0	12
311	Steam pumping	0	0	0	0	0			0	0	0	12
311	Electrical Pumping	16,762	0	16,762	9,044	4,444	3,274	0	0	0	0	12
311	Diesel Pumping	0	0	0	0	0			0	0	0	12
311	Other plant & Misc. Equip.	0	0	0	0	0			0	0	0	12
WATER TREATMENT PLANT												
302	Land and land rights	192,845	0	0	0	0			0	0	0	13
304	Structures and improvements	83,024	0	83,024	55,669	27,355	0	0	0	0	0	13
309	Water treatment	109,821	0	109,821	73,637	35,194						2
309	Other Plant & Misc. Equip.	0	0	0	0	0						2
TRANSMISSION/DISTRIBUTION												
303	Land and land rights	821,464	0	0	0	0			0	0	0	13
304	Structures and improvements	11,076	0	11,076	2,652	869	909	0	0	0	0	13
304	Dist. resources and subtypes	40,005	0	40,005	20,773		19,239	0	2,565	3,544	1,143	4
331	Mains	229,767	0	229,767	129,363	63,566	46,839					12
333	Services	229,276	0	229,276								6
334	Meters	126,306	0	126,306								6
334	Meter installations	61,429	0	61,429								6
335	Hydants	83,622	0	83,622								8
336	Backflow Prevention Devices	0	0	0	0	0			0	0	0	13
339	Other Plant & Misc. Equip.	0	0	0	0	0			0	0	0	13
GENERAL PLANT												
303	Land and land rights	265,944	0	0	0	0			0	0	0	8
304	Structures and improvements	23,818	0	23,818	6,882	3,133	1,677	0	4,301	5,939	1,946	8
304	Office furniture	13,295	0	13,295	3,825	1,746	936	0	2,461	3,315	1,089	9
341	Transportation	74,694	0	74,694	21,464	9,606	5,268	0	13,467	18,626	6,007	9
342	Stores	27	0	27	8	4	2	0	5	7	2	9
343	Tools etc	30,807	0	30,807	8,863	4,553	2,169	0	5,653	7,692	2,478	9
344	Laboratory	4,244	0	4,244	1,221	559	289	0	766	1,089	341	9
346	Power equipment	11,038	0	11,038	3,176	1,452	777	0	1,553	2,762	888	9
346	Communications	28,694	0	28,694	8,255	3,775	2,020	0	5,181	7,165	2,305	9
347	Miscellaneous	0	0	0	0	0	0	0	0	0	0	9
348	Data Processing equip	80,327	0	80,327	23,110	10,557	5,665	0	14,504	20,031	6,460	9
399	RECONCILIATION	1	(71,212)	(71,211)	(20,487)	(8,366)	(5,013)	0	(12,869)	(17,759)	(5,172)	9
TOTAL DEPRECIATION		1,320,901	(71,212)	1,249,689	356,533	164,399	87,977	0	225,644	311,629	108,597	
Allocation Code 9 Calculation		Cross check =		1,249,689	28,77%	13.15%	7.04%	0.00%	18.06%	24.94%	8.04%	100.00%

- 1 This code refers to allocations made 100 percent to Base Cost. Base Costs are costs which tend to vary with the quantity of water used and do not contain elements necessary to meet variations in demand.
- 2 This code refers to allocations divided between Base Cost and Extra Capacity Cost on the ratio of the average annual consumption per day to the maximum consumption on the Maximum Day. Extra Capacity costs are those costs associated with meeting rate of use requirements in excess of the average.
- 3 This code refers to allocations divided between Base Cost and Extra Capacity Cost on the ratio of the average annual consumption per day to the maximum hourly consumption.
- 4 This code refers to allocations made 100 percent to Extra Capacity - Maximum Hour.
- 5 This code refers to allocations made 100 percent to commercial costs associated with serving customers irrespective to the amount of water used or the maximum demand. They include meter reading, billing, customer accounting and collection expenses.
- 6 This code refers to allocations made 100 percent to maintenance and capital charges on customer meters.
- 7 This code refers to allocations made 100 percent to maintenance and capital charges on customer services.
- 8 This code refers to allocations made 100 percent to Fire Protection - Hydrants.
- 9 This code refers to allocations divided among various cost functions in the same ratio as the average allocation of plant in service as developed and shown on page 6 of 17 of this Schedule.
- 10 This code refers to allocations divided among various cost functions in the same ratio as the average allocation of operating and maintenance expenses has been allocated before administrative and general expenses and without considering fuel, power and chemical costs.
- 11 This code refers to allocations divided among various cost functions in the same ratio as the average allocation of labor costs if available or on the basis of Allocation Code 10 if not.
- 12 This code refers to allocations divided among Base Cost, Extra Capacity - Maximum Day and Extra Capacity - Maximum Hour.
- 13 This code refers to allocations divided among various cost functions in the same percentage ratio as the average of all items in that subgroup.

**Consumers Illinois Water Company  
 Docket 00-0337 - Kankakee  
 Staff Comparison of Present and Past Public Fire Protection**

Entity	Prior Rate Case - Docket 97-0351				Current Rate Case - Docket 00-0337				Rate Change
	Hydrants	Fire Prot Bills	Customers /Hydrant	5/8" Meter Rate	Hydrants	Fire Prot Bills	Customers /Hydrant	5/8" Meter Rate	
Total	1,504	223,884	12.4		2,103	253,500	10.0		
Kankakee	703	105,684	12.5	\$ 1.59	700	106,182	12.6	\$ 1.91	\$ 0.32
Limestone	56	6,384	9.5	2.33	47	6,776	12.0	2.19	(0.14)
Kankakee Twp	75	2,592	2.9	5.47	114	2,607	1.9	10.12	4.65
Bradley	128	38,976	25.4	0.23	469	63,115	11.2	2.15	1.92
Manteno (IDCC)	19	396	1.7	2.92	70	888	1.1	9.32	6.40
Bourbonnais TWP	63	15,396	20.4	1.06	115	17,663	12.8	1.91	0.85
Bourbonnais	460	54,456	9.9	2.00	588	56,269	8.0	2.89	0.89

**CONSUMERS ILLINOIS WATER COMPANY**  
**Docket 00-0337**  
**RESIDENTIAL BILL COMPARISON (5/8 INCH METER)**

KANKAKEE DISTRICT		CURRENT	COMPANY PROPOSED	STAFF PROPOSED
FACILITIES CHARGE		\$10.00	\$10.50	\$10.50
USAGE CHARGE (CCF)		\$1.4210	\$1.8200	\$1.64
(CITY OF KANKAKEE)				
FIRE SURCHARGE		\$1.59	\$1.93	\$1.91

LINE NO.	USAGE 100'S CU. FT.	USAGE IN GALLONS	CURRENT MONTHLY BILL	COMPANY PROPOSED MONTHLY BILL	DOLLAR INCREASE	PERCENT INCREASE	STAFF PROPOSED MONTHLY BILL	DOLLAR INCREASE	PERCENT INCREASE
1	1	748	\$13.01	\$14.25	\$1.24	9.53%	\$14.05	\$1.04	8.0%
2	2	1,496	\$14.43	\$16.07	\$1.64	11.37%	\$15.69	\$1.26	8.7%
3	3	2,244	\$15.85	\$17.89	\$2.04	12.87%	\$17.33	\$1.48	9.3%
4	4	2,992	\$17.27	\$19.71	\$2.44	14.13%	\$18.97	\$1.70	9.8%
5	5	3,740	\$18.70	\$21.53	\$2.83	15.13%	\$20.61	\$1.91	10.2%
6	6	4,488	\$20.12	\$23.35	\$3.23	16.05%	\$22.25	\$2.13	10.6%
7	7	5,236	\$21.54	\$25.17	\$3.63	16.85%	\$23.89	\$2.35	10.9%
8*	8	5,984	\$22.96	\$26.99	\$4.03	17.55%	\$25.53	\$2.57	11.2%
9	9	6,732	\$24.38	\$28.81	\$4.43	18.17%	\$27.17	\$2.79	11.4%
10	10	7,480	\$25.80	\$30.63	\$4.83	18.72%	\$28.81	\$3.01	11.7%

Notes:  
 \* Typical monthly residential usage

Docket Nos. 00-0337,  
00-0338 & 00-0339  
Consolidated  
ICC Staff Ex. 11.00

**REBUTTAL TESTIMONY**

**of**

**THOMAS R. STACK  
Director  
Water Department  
Financial Analysis Division  
Illinois Commerce Commission**

**CONSUMERS ILLINOIS WATER COMPANY**

**Docket Nos. 00-0337, 00-0338 & 00-0339 Consolidated**

**October 26, 2000**

1 **Preliminary**

2

3 Q. Please state your name and business address.

4 A. Thomas R. Stack, 527 East Capitol Avenue, Springfield, Illinois 62701.

5

6 Q. Are you the same Thomas R. Stack that submitted Direct Testimony in this  
7 matter dated August 31, 2000?

8 A. Yes, I am.

9

10 Q. What is the purpose of your testimony?

11 A. The purpose of my testimony is to address the Rebuttal testimony of Consumers  
12 Illinois Water Company (CIWC or Company) witnesses Terry Rakocy (CIWC EX.  
13 No. 1.0R) and David Monie (CIWC EX. No. 9.0R) and to provide an updated  
14 cost-of-service study which includes certain adjustments to public fire protection  
15 billing units and incorporates the Staff's recommended revenue requirement as  
16 set forth in Staff witness Dianna Hathhorn's rebuttal testimony (ICC Staff Ex.  
17 8.00).

18

19 **Testimony of Terry Rakocy**

20 Q. What is your understanding of Mr. Rakocy's Rebuttal Testimony regarding the  
21 Company's proposed Infrastructure Improvement Charge?



22 A. My understanding is that Mr. Rakocy has agreed that the Company will not  
23 pursue approval of the proposed Infrastructure System Improvement Charge in  
24 this case but, rather, will pursue approval of such a charge in the ongoing  
25 rulemaking process to develop a Qualifying Infrastructure Plant Surcharge,  
26 which is currently in the workshop phase.

27  
28 Q. Based on Mr. Rakocy's testimony, is there any reason to further address the  
29 question of approval of tariff sheets ILL. C.C. No. 5 Original sheets 17 -19 and  
30 ILL. C.C. No. 32, Original Sheets 15-17?

31 A. No, the order issued in this matter should cancel those sheets without prejudice  
32 and the Company can pursue the matter in the rule making or, if for some  
33 unforeseen reason the rule making does not progress, it could file tariffs again.

34

### 35 **Testimony of David Monie**

36 Q. What is your understanding of Mr. Monie's Rebuttal Testimony regarding  
37 general service and private fire protection rates?

38 A. Mr. Monie indicated that he is willing to accept my rates for general service and  
39 for private fire protection although he disagrees with the way I allocate certain  
40 items. Mr. Monie continues to have a fundamental difference with my  
41 computation of public fire protection rates in that he believes that the same rate  
42 should be applied to all customers receiving public fire protection service in the  
43 Kankakee Division while I develop separate rates for each municipality and fire

44 protection district. Finally, in response to concerns I expressed in my Direct  
45 Testimony, Mr. Monie indicated that the Company has again counted the  
46 number of fire hydrants in each municipality and fire protection district and he  
47 provided the results of that study. He also suggested that there are changes in  
48 some district boundaries.

49  
50 Q. Based on Mr. Monie's testimony, is there any reason to further address the  
51 portion of his testimony starting at line 1 of page 2 and ending at line 11 of page  
52 3 of CIWC Exhibit No. 9.0R.

53 A. While I do not agree with his positions as set forth on those pages, there is no  
54 reason to pursue these matters since Mr. Monie accepted my rates which were  
55 developed using a different method of allocation than he is supporting.

56  
57 Q. Do you agree with Mr. Monie's position regarding public fire protection rates  
58 wherein he indicates that there should be one uniform rate for the entire  
59 Kankakee division?

60 A. No, I do not for all the reasons set forth at lines 399-455 of my Direct Testimony,  
61 which is identified as ICC Staff Ex. 4.00.

62  
63 Q. At page 4 of Mr. Monie's Rebuttal Testimony, he states that "the number  
64 of customer equivalent units is a valid simplified, method of allocating fire  
65 protection costs between fire districts." Do you agree?

66 A. No, I do not. The number of customers as a stand alone allocator is not  
67 necessarily reflective of the level of fire protection. The number of hydrants and  
68 therefore the level of fire protection is controlled by the fire protection district or  
69 municipality. Some districts do not attempt to provide hydrants for the entire  
70 area. Rather, they rely on having tankers and filling those tankers from a limited  
71 number of hydrants. Other areas have very few customers but have hydrants for  
72 the customers that are present. In such instances, the number of customers  
73 would not be reflective of the level of fire protection provided by a water system.

74  
75 The Company's Manteno district is an example of the problems that can result  
76 from using only the number of customers. There are only 888 customers in the  
77 district-- .35% of the total customers in the Kankakee District-- yet there are 57  
78 hydrants, or 2.9% of the total hydrants. This district is unique in that the  
79 percentage of meters 1 ½ inches and larger is much higher than in the other  
80 areas as a result of larger buildings in this district. Larger buildings typically  
81 have higher fire flow requirements. Simply counting the customers in Manteno  
82 would not reflect the unique fire costs for this area.

83  
84 Q. Are there methods of allocating fire protection costs other than the number of  
85 hydrants?

86 A. Yes, using the number of hydrants has limitations although, according to  
87 American Water Works Manual M1, it is the most common method to recover

88 public fire protection costs. ( AWWA Manual M1, Fifth Edition, page 225). The  
89 other method detailed in Manual M1 is the "inch-foot" method which assigns  
90 costs other than those associated with fire hydrants on the basis of the length of  
91 mains and the diameter of those mains.

92  
93 I assign fire hydrant costs based on the number of hydrants. I agree that the  
94 inch-foot method could be a more accurate method of assigning fire protection  
95 costs in certain instances. The problem is that the inch-foot method requires the  
96 utility to know the length and size of every main in each fire protection  
97 jurisdiction. That is no simple matter.

98  
99 Given the problems encountered in this case with the number of fire hydrants in  
100 each jurisdiction of the Kankakee Division, I have no confidence that the  
101 Kankakee Division would be able to provide the correct footage and size of all  
102 mains in each jurisdiction.

103  
104 Staff has, in rare instances, used a variation of the inch-foot method which we  
105 refer to as the "two-tier method" wherein non-hydrant fire protection costs are  
106 allocated based on the number of customers while hydrant costs are allocated  
107 based on the number of hydrants. I have included that calculation as Staff  
108 Exhibit 11.00, Schedule 11.02. There is not a substantial difference in the  
109 charges from a hydrant only allocation for most of the fire districts except for

- 110 Manteno where the costs assigned would be reduced about 33%. As an  
111 example, the fire protection charge to a customer with a 5/8" meter would be  
112 reduced from \$8.48 to \$5.60.  
113
- 114 Q. Have you reviewed the new hydrant count provided by Mr. Monie in his  
115 testimony?
- 116 A. Yes, I have. I have accepted the revised hydrant count. The revised numbers  
117 appear to better reflect the count in the last rate case (Docket No. 97-0351).  
118
- 119 Q. Mr. Monie recommends combining the Village of Bourbonais and Bourbonais  
120 Township Fire Protection Districts for recovery of fire protection costs since  
121 those two entities are now a common fire district. Do you agree that combining  
122 the two districts is appropriate?
- 123 A. Yes I do. If the districts have been combined, it is appropriate to combine them  
124 for recovery of fire protection costs and I have reflected them as one entity in my  
125 revised cost-of-service study (Staff Ex. 11.00, Schedule 11.01).  
126
- 127 Q. Mr. Monie also recommends that the City of Kankakee and Kankakee Township  
128 be combined for determining fire protection costs since a mutual aid agreement  
129 exists between those two entities. Do you agree with that proposal?
- 130 A. No, I do not. The existence of a mutual aid agreement apparently only relates to  
131 firefighters. The Township would still be the entity responsible for making the

132 decision on the number of fire hydrants and size of water mains. In this  
133 instance, they have simply contracted with another entity to provide firefighters.  
134 Mutual aid agreements whereby firefighters respond or assist in response to  
135 fires are very common, but that does not change the fact that there are still two  
136 separate and distinct entities responsible for the provision of fire protection. In  
137 my opinion, the rates should be separate as well.

138

139 **Cost Of Service Study**

140 Q. Have you updated your cost-of-service study (COSS)?

141 A. Yes I have. I prepared an updated COSS which is identified as ICC Staff Ex.  
142 11.00, Schedule 11.01 which consists of 17 pages. The bill comparison,  
143 consisting of one page, is also updated and is identified as ICC Staff Ex. 11.00,  
144 Schedule 11.03.

145

146 Q. What changes did you make to the study compared to the study you submitted  
147 with your direct testimony in this matter, which was identified as ICC Staff Exhibit  
148 4.00, Schedule 4.02K?

149 A. I updated the study to include the revised revenue requirement being  
150 recommended by Staff as set forth in Exhibit 8.00, Schedule 8.01. I also  
151 changed the hydrant count to correspond with the information provided by Mr.  
152 Monie in his rebuttal testimony and combined the Village of Bourbonais and  
153 Bourbonais Township Fire Protection Districts for recovery of fire protection

154 costs since those two entities are now a common fire district. Finally, I changed  
155 the allocation factor for depreciation of reservoirs to assign all costs to maximum  
156 day only. I inadvertently assigned the costs to both maximum day and average  
157 day in my direct testimony. There is very little change to the cost of service  
158 study as a result of this change. Except as I noted, all other allocations and the  
159 overall methodology remain the same as in the study set forth in ICC Staff  
160 Exhibit 4.00, Schedule 4.02K and the explanations provided in Exhibit 4.00 still  
161 apply.

162

163 Q. Does that conclude your Rebuttal Testimony?

164 A. Yes it does.

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Revenues at Present and Proposed Rates"

ITEM	PRESENT RATES	PROPOSED RATES	STAFF RATES	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		PUB. UT.		SALES FOR RESALE		TOTAL
				BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	
CUS CHARGES, MONTHLY														
50¢ disk	10.00	10.50	10.50	223,751	0	10,930	0	108	0	0	0	0	0	234,789
3/4" disk	13.50	14.16	13.50	5,341	0	373	0	0	0	0	0	0	0	5,714
1" disk	20.50	21.53	20.50	3,140	0	3,630	0	72	0	0	0	0	0	6,842
1 1/2" disk	40.00	42.00	40.00	425	0	914	0	84	0	0	0	0	0	1,423
2" disk	60.00	63.00	60.00	361	0	2,417	0	156	0	0	0	0	0	2,934
3" disk	109.00	114.65	109.00	24	0	504	0	144	0	0	0	0	0	672
4" disk	178.00	186.90	178.00	0	0	48	0	36	0	0	0	0	0	84
6" disk	355.00	372.75	355.00	0	0	24	0	24	0	0	0	0	0	48
8" disk	565.00	593.25	565.00	0	0	12	0	0	0	0	0	0	0	12
10" disk	810.00	850.50	810.00	0	0	0	0	0	0	0	0	0	0	0
12" disk	1200.00	1312.50	1200.00	0	0	0	0	0	0	0	0	0	0	0
3" turbine	126.00	132.20	126.00	0	0	24	0	12	0	0	0	0	0	36
4" turbine	210.00	220.50	210.00	0	0	72	0	0	0	0	0	12	0	84
6" turbine	440.00	462.00	440.00	0	0	12	0	60	0	0	0	12	0	84
8" turbine	633.00	664.65	633.00	0	0	12	0	36	0	0	0	0	0	48
10" turbine	1020.00	1071.00	1020.00	0	0	0	0	0	0	0	0	0	0	0
Remove Parallel Meters	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
Total Bills				233,042	0	18,972	0	732	0	0	0	24	0	252,770
TOTAL CUS CHARGE REVENUES														
Present				2,415,280	0	480,131	0	96,820	0	0	0	7,800	0	2,999,790
Proposed				2,536,070	0	504,255	0	101,458	0	0	0	8,190	0	3,149,973
Staff				2,527,135	0	485,586	0	96,654	0	0	0	7,800	0	3,117,185
USAGE CHARGES (100 cubic feet)														
First Block	1.4210	1.8200	1.7500	1,697,883	0	236,975	0	14,815	0	0	0	720	0	1,950,383
Second Block	0.8680	1.3010	1.0900	201,084	0	502,302	0	119,672	0	0	0	11,280	0	834,338
Third Block	0.7500	0.8680	0.8230	1,416	0	320,752	0	1,380,733	0	0	0	106,540	0	1,789,441
Fourth Block	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0
Fifth Block	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0
Sixth Block	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0
ADJUSTMENTS														
First Block	1.4210	1.8200	1.7500	0	0	0	0	0	0	0	0	0	0	0
Second Block	0.8680	1.3010	1.0900	0	0	0	0	0	0	0	0	0	0	0
Third Block	0.7500	0.8680	0.8230	0	0	0	0	0	0	0	0	0	0	0
Fourth Block	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0
Fifth Block	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0
Sixth Block	0.0000	0.0000	0.0000	0	0	0	0	0	0	0	0	0	0	0
Total Usage														
				1,900,383	0	1,060,029	0	1,495,220	0	0	0	118,540	0	4,574,172
USAGE CHARGE REVENUES														
Present				2,587,892	0	1,012,299	0	1,145,238	0	0	0	90,697	0	4,836,126
Proposed				3,352,986	0	1,363,202	0	1,363,773	0	0	0	108,462	0	6,188,424
Staff				3,189,631	0	1,221,171	0	1,275,065	0	0	0	101,125	0	5,786,983



**ILLINOIS COMMERCE COMMISSION**  
**Cost of Service Study**  
**"Revenues at Present and Proposed Rates"**

ITEM	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		PUB. AUT.		SALES FOR RESALE		TOTAL
	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	BILL AMT.	ADJUST.	
OTHER ADJUSTMENTS											
Reconciliation	Present	0	0	0	0	0	0	0	0	0	0
	Proposed	0	0	0	0	0	0	0	0	0	0
	Staff	0	0	0	0	0	0	0	0	0	0
TOTAL METERED REVENUES											
	Present	5,003,152	0	1,492,430	0	1,241,838	0	0	98,497	0	7,835,918
	Proposed	5,889,056	0	1,867,458	0	1,465,231	0	0	116,652	0	9,338,397
	Staff	5,716,766	0	1,706,767	0	1,371,709	0	0	108,925	0	8,904,167
PVT. FIRE PROT. RATES, MONTHLY											
Size Connection	Less than 3"	3"	4"	6"	8"	10"	12"	16"	PRIVATE HYDRANTS		
Present	4.00	5.00	7.00	13.00	24.00	40.00	63.00	0.00	12.70		
Proposed	5.14	5.14	9.13	20.54	36.53	57.07	82.19	0.00	12.70		
Per Cost of Service Study	6.00	7.00	10.00	19.00	36.00	61.00	95.00	198.00	15.80		
Staff	6.00	7.00	10.00	19.00	36.00	61.00	95.00	198.00	15.80		
Units (ANNUAL)	144	0	180	900	1,008	108	48	0	60		
NON-METERED REVENUES											
	PVT. FIRE	TOTAL									
		MUNICIPAL	PUBLIC FIRE SURCHARGE	TOTAL	OTHER OPERATING			VARIABLE REVENUES		NON-METERED	
Present	45,834	0	444,236	444,236	53,423			40,491		583,984	
Proposed	68,562	0	485,980	485,980	53,423			40,491		648,156	
Staff	68,148	0	722,723	722,723	53,423			50,098		894,392	
TOTAL REVENUES											
	RESIDENTIAL	COMMERCIAL		INDUSTRIAL		PUBLIC AUTHORITY		RETAIL		NON-METERED	
Present	5,003,152	1,492,430		1,241,838		0		98,497		583,984	
Proposed	5,889,056	1,867,458		1,465,231		0		116,652		648,156	
Staff	5,716,766	1,706,767		1,371,709		0		108,925		894,392	
PER STAFF											
	RESIDENTIAL	COMMERCIAL		INDUSTRIAL		PUBLIC AUTHORITY		RETAIL		PVT. FIRE	
Cost of Service	5,718,109	1,708,089		1,369,384		0		108,688		722,895	
Percent Increase	14.3	14.4		10.5		0.0		10.6		62.7	
Percent Cost of Service	100.0	99.9		100.2		0.0		100.2		100.0	
Overall Percent Increase per Staff 16.4%											

Consumers Illinois Water Company

ILLINOIS COMMERCE COMMISSION

Docket No 00-0337

ICC Staff Exhibit 11.00

Schedule 11.01 K

Cost of Service Study  
"Demand Factors"

Customer Class	DEMAND FACTORS	
	Max Day	Max Hour
Residential	2.50	3.00
Commercial	1.80	2.50
Industrial	1.30	1.50
Public Authority	1.40	1.60
Resale	1.30	1.50
Fire Protection	0.63	5.04
Gallons Per Minute	3,500	
Hours of Protection	3	
MGD PUMPAGE		
Average Daily Rate		11.600
Max. Daily Rate		17.300
Max. Hourly Pumpage Rate		20.200
Max. Hourly Consumption Rate		21.500
(Pumpage plus Storage Drawdown)		

Docket No 00-0337

Cost of Service Study

ICC Staff Exhibit 11.00

"Allocation to Cost Functions"

Schedule 11.01 K

Description	Alloc. Code	Base		Extra Capacity		Customer Costs			Fire Service Percent
		Cost Percent	Max Day Percent	Max Hour Percent	Billing Percent	Meter Percent	Services Percent		
Base Cost	1	100.00%							
Base-Max Day	2	67.05%	32.95%	46.05%					
Base-Max Hr.	3	53.95%		100.00%					
Max Hour	4				100.00%				
Commercial	5					100.00%			
Meters	6						100.00%		
Services	7							100.00%	
Hydrants	8								
Plant	9	36.00%	17.69%	15.61%	0.00%	8.20%	17.69%	4.80%	
Adm. and Gen.	10	38.54%	18.54%	6.32%	31.24%	0.16%	3.09%	2.10%	
Labor B'fits	11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Base/Max Day/									
Max Hour	12	53.95%	26.51%	19.53%					
Base/Max Hr	14	51.92%	48.08%						
+ Fire									

Refer to last page for brief allocation code explanations

Consumers Illinois Water Company

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Schedule 11.01 K

ILLINOIS COMMERCE COMMISSION

Cost of Service Study

"Plant in Service Allocation"

Act	Account	Utility Cost	Depreciation Reserve	Net Cost	Base Cost	Extra Capacity	Billing	Customer Costs	Services	Fire Service	Alloc. Code
						Max Day	Max Hour				
	INTANGIBLE PLANT	71,339									
301	Organization	58,733	0	58,733	58,733						1
302	Franchises	12,606	0	12,606	12,606						1
303	Miscellaneous	0	0	0	0						1
	SOURCE OF SUPPLY PLANT	190,392									
303	Land and land rights	3,500	0	3,500	2,347	1,153	0	0	0	0	13
304	Structures and improvements	18,726	8,390	10,336	6,930	3,406	0	0	0	0	13
305	Collecting reservoirs	0	0	0	0						1
306	Inlettes	94,131	45,667	48,464	32,496	15,968	7,407				2
307	Wells	28,915	6,435	22,480	15,073	0	0				2
308	Infiltration Galleries	0	0	0	0						2
309	Supply mains	45,120	0	45,120	30,254	14,866					2
309	Other plant	0	0	0	0	0					2
	PUMPING PLANT	1,342,610									
303	Land and land rights	17,320	0	17,320	9,345	4,592	3,383	0	0	0	13
304	Structures and improvements	526,353	190,365	335,988	181,277	89,076	65,635	0	0	0	13
310	Power Generation Equip.	248,324	48,702	199,622	107,703	52,923	38,996				12
310	Other power production	0	0	0	0						12
311	Steam pumping	0	0	0	0						12
311	Electrical Pumping	550,613	69,566	481,045	259,541	127,533	93,972	0	0	0	12
311	Diesel Pumping	0	0	0	0						12
339	Other Plant & Misc. Equip.	0	0	0	0						12
	WATER TREATMENT PLANT	6,123,226									
303	Land and land rights	43,016	0	43,016	28,843	14,173	0	0	0	0	13
304	Structures and improvements	2,986,963	580,287	2,406,676	1,613,725	792,951	0	0	0	0	13
320	Water treatment	3,093,247	690,989	2,402,258	1,610,763	791,495					2
339	Other Plant & Misc. Equip.	0	0	0	0						2
	TRANSMISSION/DISTRIBUTION	37,227,513									
303	Land and land rights	39,161	0	39,161	11,670	5,734	7,146	0	3,904	8,419	13
304	Structures and improvements	265,610	(4,124)	269,734	80,380	38,497	49,235	0	26,890	15,742	13
330	Dist. reservoirs and standpipes	2,395,592	335,980	2,059,612			2,059,612				4
331	Mains	21,190,962	5,949,410	15,241,552	8,223,349	4,040,784	2,977,419				12
333	Services	7,796,065	1,853,268	5,932,797							7
334	Meters	2,033,963	180,946	1,853,007					1,853,007	5,932,787	6
334	Meter installations	1,383,529	485,502	898,027					898,027		6
335	Hydrants	2,117,020	505,524	1,610,496							8
336	Backflow Prevention Devices	0	0	0							7
339	Other Plant & Misc. Equip.	15,631	406	15,225	4,537	2,229	2,779	0	1,518	3,273	13

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Plant in Service Allocation"

Act No.	Account	Utility Cost	Depreciation Reserve	Net Cost	Base Cost	Extra Capacity		Customer Costs		Billing	Fire Service	Alloc. Code
						Max Day	Max Hour	Meter	Services			
GENERAL PLANT												
303	Land and land rights	35,116	0	35,116	12,643	6,213	5,482	2,890	6,211	0	1,686	9
304	Structures and improvements	595,454	57,605	537,849	193,649	95,155	83,972	44,114	95,134	0	25,825	9
340	Office furniture	828,166	37,361	790,805	284,724	139,908	123,465	64,861	139,877	0	37,971	9
341	Transportation	714,597	85,729	628,868	226,420	111,258	98,182	51,579	111,234	0	30,195	9
342	Stores	5,736	16,117	(10,381)	(3,738)	(1,837)	(1,621)	(851)	(1,836)	0	(498)	9
343	Tools etc	547,050	120,829	426,221	153,458	75,406	68,544	34,958	75,390	0	20,465	9
344	Laboratory	91,402	9,826	81,576	29,371	14,432	12,736	6,691	14,429	0	3,917	9
345	Power operated	228,096	34,131	193,965	69,836	34,316	30,283	15,909	34,306	0	9,313	9
346	Communications	251,778	30,359	221,419	79,720	39,173	34,569	18,161	39,164	0	10,631	9
347	Miscellaneous	7,132	0	7,132	2,568	1,262	1,113	585	1,262	0	342	9
348	Data Processing Equip	0	0	0	0	0	0	0	0	0	0	9
399	RECONCILIATION	0	0	0	0	0	0	0	0	0	0	9
TOTAL PLANT IN SERVICE		48,259,607	11,340,272	36,919,335	13,388,223	6,519,073	5,752,905	3,022,232	6,517,643	0	1,769,259	
Allocation Code 9		Cross check =		36,919,335	36.00%	17.69%	15.61%	8.20%	17.69%	0.00%	4.80%	
Calculation												
Small Main Plant in Service				Total	Base Cost	Max Day	Max Hour					
Small Main CIAC				5,948,761	3,209,564	1,577,113	1,162,084					
Total Plant CIAC				8,550,060	4,613,056	2,266,760	1,670,244					
Allocated Total Plant less General					12,289,571	6,003,787	5,296,179					
% Small Main to Allocated Total Plant					26.12%	26.27%	21.93%					
Small Main with General Plant Allocated					3,483,432	1,712,472	1,261,821					
Small Main with General Plant Allocated less CIAC					1,694,340	828,436	610,426					
Allocated Total Plant less CIAC					8,725,168	4,252,312	4,082,661					
% Small Main less CIAC to Allocated Total Plant less CIAC					19.30%	19.48%	14.95%					

Consumers Illinois Water Company

Docket No 00-0337

ICC Staff Exhibit 11.00

Schedule 11.01 K

ILLINOIS COMMERCE COMMISSION

Cost of Service Study

"Revenue Requirement Allocation"

Act	Account	Utility 1999 Cost	Utility Cost	Staff Adjust.	Net Cost	Base Cost	Extra Capacity Max Day	Max Hour	Billing	Customer Costs	Meter	Services	Fire Service	Alloc. Code
SOURCE OF SUPPLY														
601	Salaries and Wages	38,095	40,095	0	40,095	26,894	13,210							2
610	Purchased water		0	0	0	0								1
615	Purchased Power	123,933	114,083	0	114,083	114,083								1
616	Fuel for Power Prod.		0	0	0	0								1
618	Chemicals		0	0	0	0								1
SOURCE OF SUPPLY														
620	Materials and Supplies	3,217	3,386	0	3,386	2,270	1,116							2
631	Contractual Serv.		0	0	0	0	0							2
635	Contractual Serv. - Testing		0	0	0	0	0							2
636	Contractual Serv. - Other	9,581	10,084	0	10,084	6,761	3,322							2
641	Rental of Property		0	0	0	0	0							2
642	Rental of Equipment	239	252	0	252	189	63							2
650	Transportation Exp.	496	522	0	522	350	172							2
658	Insurance		0	0	0	0	0							2
668	Water Res. Conserv. Exp.		0	0	0	0	0							2
675	Misc. Expenses	3,689	3,883	0	3,883	2,804	1,279							2
PUMPING EXPENSES														
601	Salaries and Wages	101,949	107,300	0	107,300	57,892	28,447	20,961						12
615	Purchased Power	125,073	115,133	0	115,133	115,133								1
616	Fuel for power production	576	606	0	606	806								1
620	Materials and Supplies	3,015	3,173	0	3,173	1,712	841	620						12
631	Contractual Serv.		0	0	0	0	0	0						12
635	Contractual Serv. - Testing		0	0	0	0	0	0						12
636	Contractual Serv. - Other	3,901	4,105	0	4,105	2,215	1,088	802						12
641	Rental of Property		0	0	0	0	0	0						12
PUMPING EXPENSES														
642	Rental of Equipment	949	999	0	999	539	265	105						12
650	Transportation Expenses	2,081	2,190	0	2,190	1,182	581	428						12
658	Insurance		0	0	0	0	0	0						12
675	Misc. Expenses	6,192	6,517	0	6,517	3,516	1,728	1,273						12
WATER TREATMENT EXPENSE														
601	Salaries and Wages	281,403	306,697	0	306,697	205,646	101,050							2
615	Purchased Power	123,381	113,575	0	113,575	76,154	37,421							2
616	Fuel for power production		0	0	0	0	0							2
618	Chemicals	278,026	287,252	0	287,252	287,252								1
620	Materials and Supplies	48833	51,386	0	51,386	34,462	16,934							2

Consumers Illinois Water Company

Docket No 00-0337

ICC Staff Exhibit 11.00

Schedule 11.01 K

ILLINOIS COMMERCE COMMISSION

Cost of Service Study

"Revenue Requirement Allocation"

Act	Account	Utility	Staff	Net	Base	Extra Capacity	Max Hour	Billing	Customer Costs	Fire	Alloc.
No.		Cost	Adjust.	Cost	Cost	Max Day			Meter	Service	Code
<b>WATER TREATMENT EXPENSE</b>											
631	Contractual Serv.	201,989	0	212,590	142,546	70,044	0	0	815	15,719	10,701
635	Contractual Serv. - Testing	0	0	0	0	0	0	0	0	0	0
636	Contractual Serv. - Other	0	0	0	0	0	0	0	0	0	0
641	Rental of Property	0	0	0	0	0	0	0	0	0	0
642	Rental of Equipment	1,076	0	1,133	759	373	0	0	0	0	0
650	Transportation Exp.	8,803	0	9,265	6,212	3,053	0	0	0	0	0
658	Insurance	0	0	0	0	0	0	0	0	0	0
675	Misc. Expenses	14,825	0	15,603	10,462	5,141	0	0	0	0	0
<b>TRANSMISSION/DISTRIBUTION</b>											
601	Salaries and Wages	131,997	34,545	173,469	84,455	35,373	26,407	0	0	15,719	10,701
661	Storage Facilities	919	0	967	0	0	967	0	0	0	0
662	Mains	282,559	0	297,388	180,451	78,942	58,094	0	2,301	44,373	0
663	Meters	2,186	0	2,301	0	0	0	0	0	0	0
664	Services	42,160	0	44,373	35,195	0	0	0	0	0	0
615	Purchased Power	38,234	0	35,195	0	0	0	0	0	0	0
616	Fuel for Power Prod.	0	0	0	0	0	0	0	0	0	0
<b>TRANSMISSION/DISTRIBUTION</b>											
618	Chemicals	0	0	0	0	0	0	0	0	0	0
620	Materials and Supplies	36,115	0	38,010	18,506	7,751	5,786	0	179	3,444	2,345
672	Diet, residences and standpipes	0	0	0	0	0	0	0	0	0	0
631	Contractual Serv.	0	0	0	0	0	0	0	0	0	0
635	Contractual Serv. - Testing	0	0	0	0	0	0	0	0	0	0
636	Contractual Serv. - Other	17,129	0	18,028	8,777	3,676	2,744	0	85	1,634	1,112
641	Rental of Property	308	0	324	158	66	49	0	2	29	20
677	Hydrants	28,702	0	30,208	407	170	127	0	4	76	52
642	Rental of Equipment	794	0	836	42,764	21,013	15,483	0	0	0	0
650	Transportation Exp.	75,308	0	79,260	5,597	2,344	1,750	0	54	1,042	709
658	Insurance	0	0	0	0	0	0	0	0	0	0
675	Misc. Expenses	10,922	0	11,495	0	0	0	0	0	0	0
<b>CUSTOMER ACCOUNTS EXPENSE</b>											
601	Salaries and Wages	406,864	0	428,218	29,503	14,192	4,839	23,913	123	2,365	1,610
615	Purchased Power	3,972	0	3,656	0	0	0	0	0	0	0
616	Fuel for Power Prod.	0	0	0	0	0	0	0	0	0	0
670	Bad Debt Expenses	95,894	10,106	76,545	0	0	0	0	0	0	0
620	Materials and Supplies	28,170	0	29,648	0	0	0	0	0	0	0
<b>CUSTOMER ACCOUNTS EXPENSE</b>											
631	Contractual Serv.	0	0	0	0	0	0	0	0	0	0
635	Contractual Serv. - Testing	0	0	0	0	0	0	0	0	0	0
636	Contractual Serv. - Other	150,148	0	158,028	0	0	0	0	0	0	0
641	Meter Reading	0	0	0	0	0	0	0	0	0	0
642	Rental of Equipment	11,149	0	11,734	0	0	0	0	0	0	0
650	Transportation Exp.	9,877	0	10,395	0	0	0	0	0	0	0
658	Insurance	0	0	0	0	0	0	0	0	0	0
675	Misc. Expenses	30,696	0	32,518	0	0	0	0	0	0	0

Consumers Illinois Water Company

Docket No 00-0337

ICC Staff Exhibit 11.00

Schedule 11.01 K

ILLINOIS COMMERCE COMMISSION

Cost of Service Study

"Revenue Requirement Allocation"

Act	Account	Utility Cost	Staff Adjust.	Net Cost	Base Cost	Extra Capacity	Max Hour	Billing	Customer Costs	Fire	Alloc
No.						Max Day			Meter	Service	Code
ADMINISTRATIVE AND GENERAL											
601	Salaries and Wages-employees	36,345	0	36,262	14,744	7,092	2,418	11,950	61	1,182	805
603	Salaries and Wages-officers	71,565	0	75,321	29,031	13,965	4,762	23,530	121	2,327	1,584
604	Pensions and benefits *	415,599	0	437,410	168,594	81,101	27,652	136,649	701	13,514	9,200
631-636	Outside services	1,051,043	(262,146)	844,055	325,329	156,497	53,359	283,586	1,352	26,078	17,754
615	Purchased Power	6,216	0	5,722	2,205	1,061	362	1,788	9	177	120
616	Fuel for Power Prod.	0	0	0	0	0	0	0	0	0	0
656-659	Insurance	117,065	(4,763)	117,670	45,354	21,817	7,439	36,761	189	3,636	2,475
641-642	Rents	9705	0	10,214	3,937	1,894	646	3,191	16	316	215
660	Transportation Exp.	7699	0	8,103	3,123	1,502	512	2,531	13	250	170
620	Materials and Supplies	42717	0	44,959	17,329	8,336	2,842	14,045	72	1,389	946
660	Advertising	44418	0	46,750	18,019	8,668	2,955	14,605	75	1,444	983
666-667	Regulatory Expense	204995	(89,235)	63,088	24,320	11,699	3,989	19,712	101	1,950	1,327
675	Misc. Expenses	2457	0	2,586	997	479	163	808	4	80	54
PRO FORMA ADJUSTMENTS											
Labor *		0	0	0	0	0	0	0	0	0	0
Fuel and Power		0	0	0	0	0	0	0	0	0	0
Chemicals		0	0	0	0	0	0	0	0	0	0
Waste Disposal		0	0	0	0	0	0	0	0	0	0
Management Fees		0	0	0	0	0	0	0	0	0	0
Group Insurance *		0	0	0	0	0	0	0	0	0	0
Pensions *		0	(4,513)	(4,513)	(1,739)	(837)	(285)	(1,410)	(7)	(139)	(95)
Regulatory Expenses		0	0	0	0	0	0	0	0	0	0
Insurance other *		0	0	0	0	0	0	0	0	0	0
Customer Accounting		0	0	0	0	0	0	0	0	0	0
Rents		0	0	0	0	0	0	0	0	0	0
General Office Exp		0	0	0	0	0	0	0	0	0	0
Maint. other		0	0	0	0	0	0	0	0	0	0
Miscellaneous		0	(12,389)	(12,389)	(4,775)	(2,297)	(783)	(3,870)	(20)	(363)	(261)
SUBTOTAL OPER. & MAINT.		4,805,449	(328,397)	4,558,674	2,131,691	780,555	246,557	1,222,086	6,248	120,501	82,036
RECONCILIATION											
TOTAL OPERATION & MAINTENANCE		4,888,071	(328,397)	4,558,674	2,131,691	780,555	246,557	1,222,086	6,248	120,501	82,036
Depreciation		1,320,901	15,411	1,336,312	357,756	175,794	120,774	0	241,285	333,229	107,473
Other Taxes		549,041	(87,783)	461,258	166,073	81,805	72,014	0	37,832	81,587	22,147
Income Taxes		945,337	(42,327)	903,010	325,123	159,789	140,983	0	74,064	159,724	43,358
Utility Operating Income		2,580,183	(51,610)	2,528,573	910,366	447,350	394,774	0	207,391	447,252	121,410
TOTAL REVENUES REQUIRED		10,283,533	(494,706)	9,798,827	3,891,040	1,625,063	975,102	1,222,086	566,820	1,142,293	376,424
Less Special Tariff Revenues		0	0	0	0	0	0	0	0	0	0
DIRECT CUSTOMER REVENUES		9,798,827		9,798,827	3,891,040	1,625,063	975,102	1,222,086	566,820	1,142,293	376,424
Cross check =		9,798,827		9,798,827	3,891,040	1,625,063	975,102	1,222,086	566,820	1,142,293	376,424

If available insert  
Labor Percentages (Code 11) from utility  
will affect items followed by \*

0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%



ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Revenue Requirement Allocation"

	Net Cost	Base Cost	Max Day	Max Hour			
Acct. 652 allocated to small mains	116,070	62,624 *	30,772	22,674			
Small mains with overhead	215,495	116,267	57,131	42,097			
Total Expense less Adm. & General and less Pro Forma Adjustments		1,851,442	625,743	200,592			
% Small Mains to Total Expense		6.28%	9.13%	20.99%			
Small Mains with Adm. & General and Pro Forma Adjustments* Allocated		133,866	69,440	51,743			
Depreciation		69,063	34,248	18,058			
Other Taxes		32,059	15,898	10,767			
Income Taxes		62,763	31,124	21,079			
Utility Operating Income		175,746	87,153	59,025			
TOTAL REVENUES ALLOCATED TO SMALL MAINS		473,497	257,863	160,673			
* excluding Fuel & Power, Chemical and Waste Disposal							
Revenue Requirement from Small Mains	Residential	Commercial	Industrial	Pub. Aut.	Sale for Resale	Total	
Remove From	457,359	199,176	199,659	0	15,830	872,033	
Reallocate to Blocks	594,658	231,503	42,114	0	3,738	872,033	
Net Adjustment	137,299	32,327	(157,556)	0	(12,072)	0	

Total

872,033

Customer Class	Annual Consumption				Max Day				Max Hour				Commercial		Equivalent Meters		Equivalent Services	
	Usage	MGD	%	% of Ave.	Amt. MGD	Excess MGD	%	% of Ave.	Amt. MGD	Excess MGD	%	% of Ave.	Monthly Bills	%	Monthly No.	%	Monthly No.	%
Residential	1,900,383	3.894	41.13%	250%	9.736	5.842	64.14%	300%	11.883	7.789	44.14%	233,042	91.33%	244,986	76.72%	235,762	89.18%	
Commercial	1,060,029	2.172	22.94%	180%	3.910	1.738	19.08%	250%	5.431	3.259	18.46%	18,972	7.44%	59,801	18.73%	26,498	10.02%	
Industrial	1,495,220	3.064	32.36%	130%	3.983	0.919	10.09%	150%	4.596	1.532	8.69%	732	0.29%	13,416	4.20%	1,998	0.76%	
Public Authority	0	0.000	0.00%	140%	0.000	0.000	0.00%	180%	0.000	0.000	0.00%	0	0.00%	0	0.00%	0	0.00%	
Resale	118,540	0.243	2.57%	130%	0.316	0.073	0.80%	150%	0.364	0.121	0.69%	24	0.01%	1,110	0.35%	108	0.04%	
SUBTOTAL	4,574,172	9.374	99.01%		17.946	8.572	94.11%		22.075	12.701	71.97%	252,770	99.06%	319,312	100.00%	264,366	100.00%	
Fire Prot.	45,742	0.094	0.99%		0.630	0.536	5.89%		5.040	4.946	28.03%	2,388	0.94%	---	---	---	---	
TOTAL	4,619,914	9.468	100.00%		18.576	9.108	100.00%		27.115	17.647	100.00%	255,158	100.00%	319,312	100.00%	264,366	100.00%	

Number of public fire protection bills ignored as immaterial

No services assigned to public fire protection; services considered to be part of hydrants.

No services assigned to private fire protection since customer generally pays for service fee.

Fire Protection Consumption set at 1% of other consumption.

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Percent Allocation to Customer Groups"

DESCRIPTION	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUBLIC AUTHORITY	SALES FOR RESALE	FIRE PROT	TOTAL
Base	41.13%	22.94%	32.36%	0.00%	2.57%	0.99%	100.00%
Maximum Day	64.14%	19.08%	10.09%	0.00%	0.80%	5.89%	100.00%
Maximum Hour	44.14%	18.46%	8.68%	0.00%	0.69%	28.03%	100.00%
Commercial	91.33%	7.44%	0.29%	0.00%	0.01%	0.94%	100.00%
Meters	76.72%	18.73%	4.20%	0.00%	0.35%	—	100.00%
Services	89.18%	10.02%	0.76%	0.00%	0.04%	—	100.00%
Fire Service-Hyd	—	—	—	—	—	100.00%	100.00%

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Percent Allocation to Customer Groups"

DESCRIPTION	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUBLIC AUTHORITY	SALES FOR RESALE	FIRE PROT	TOTAL
Base	1,600,563	892,790	1,259,322	0	99,838	38,525	3,891,039
Maximum Day	1,042,291	310,073	164,015	0	13,003	95,681	1,625,062
Maximum Hour	430,380	180,049	84,656	0	6,711	273,306	975,102
Commercial	1,116,160	90,867	3,506	0	115	11,437	1,222,086
Meters	434,881	106,154	23,815	0	1,970	—	566,820
Services	1,016,699	114,495	8,633	0	467	—	1,142,293
Fire Service-Hyd	—	—	—	—	—	376,424	376,424
Adjustments *	(62,165)	(18,666)	(17,009)	0	(1,345)	(4,338)	(103,521)
Small Main Adjustment	137,299	32,327	(157,555)	0	(12,072)		0
TOTAL COST OF SERVICE	5,718,109	1,708,088	1,369,384	0	108,688	791,037	9,695,305
Percent of COSS	58.98%	17.62%	14.12%	0.00%	1.12%	8.16%	100.00%

\* for Other and for Unbilled

Special Tariff Revenues	0
Other Operating Revenues	53,423
Unbilled Revenues	50,098
Total Revenues	9,798,826

	Equiv. Conn.
FIRE PROTECTION	
Public, monthly	23,760
Private, monthly	3,829
Total Equiv. Connections	27,589
Total Fire Protection per Cost of Service Study	791,037
Less Billing Costs	11,437
Less Hydrant Costs	376,424
Total Non-hydrant Fire Protection Costs	403,175
Total Non-hydrant Fire Protection Costs Per Equiv. Connection, monthly	14.61
Public Fire Protection Connection Costs	347,219
Plus Hydrant Costs	375,476
Total Public Fire Protection Costs	722,695
Total Private Fire Protection Connection Costs	55,956
Plus Billing Costs	11,437
Plus Hydrant Costs	948
Total Private Fire Protection Costs	68,342

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Private Fire Protection Rates"

Private Fire Prot.	Ratio #	Monthly COSS Rates	Monthly Staff Rates
less than 3"	0.056	5.60	6.00
3	0.162	7.15	7.00
4	0.344	9.82	10.00
6	1.000	19.40	19.00
8	2.131	35.93	36.00
10	3.832	60.79	61.00
12	6.190	95.25	95.00
16	13.192	197.57	198.00

# - ratio based on capacity

Per Hydrant Cost Customer	Hydrants	Total Cost	Municipal Paid	MONTHLY BILLS					Fire Prot Bills	Equip. Fire Prot Bills	Monthly Rates				Actual Surcharge Revenues
				Customer Surcharge	5/8"	3/4"	1"	1 1/2"			5/8"	3/4"	1"	1 1/2"	
Total	1,980	722,895	0	722,895	232,820	7,812	7,560	5,508	250,500	290,778	0.00	0.00	0.00	0.00	722,723
Outside	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
Kankakee	769	280,633	0	280,633	100,218	648	3,132	2,184	106,182	118,940	2.34	3.51	5.85	11.70	280,690
Limestone	84	23,360	0	23,360	6,512	192	80	12	6,776	7,070	3.33	5.00	8.33	16.65	23,345
Kankakee Twp	33	12,045	0	12,045	2,223	72	84	228	2,807	3,681	3.27	4.91	8.18	16.35	12,038
Bradley	463	168,994	0	168,994	56,755	3,960	1,332	1,068	63,115	71,365	2.37	3.66	5.83	11.85	168,162
Marion (IDCC)	57	20,805	0	20,805	60	456	60	312	888	2,454	8.48	12.72	21.20	42.40	20,810
Bourbonnais	594	216,809	0	216,809	66,852	2,484	2,892	1,704	73,832	86,328	2.51	3.77	6.28	12.55	216,710
A	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
B	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
C	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
D	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
E	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
F	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
G	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
H	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
I	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
J	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
K	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
L	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
M	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
N	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
O	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
P	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
Q	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
R	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
S	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
T	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
U	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
V	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
W	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
X	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
Y	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
Z	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
AA	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
BB	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0
CC	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0

Total cost per fire protection customer based on number of Hydrants

Consumers Illinois Water Company

ILLINOIS COMMERCE COMMISSION

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Docket No 00-0337

Cost of Service Study

ICC Staff Exhibit 11.00

"Equiv. Meters and Services"

Schedule 11.01 K

ITEM	METER RATIO	SERVICE RATIO	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	PUB AUTH	RETAIL	TOTAL
METER SIZE								
5/8" disk	1.0	1.0	223751	10930	108	0	0	234789
3/4" disk	1.5	1.1	5341	373	0	0	0	5714
1" disk	2.5	1.4	3140	3630	72	0	0	6842
1 1/2" disk	5.0	1.8	425	914	84	0	0	1423
2" disk	8.0	2.5	361	2417	156	0	0	2934
3" disk	15.0	3.0	24	504	144	0	0	672
4" disk	25.0	4.0	0	48	36	0	0	84
6" disk	50.0	5.0	0	24	24	0	0	48
8" disk	80.0	6.0	0	12	0	0	0	12
10" disk	115.0	6.5	0	0	0	0	0	0
12" disk	168.0	7.0	0	0	0	0	0	0
3" turbine	17.5	3.0	0	24	12	0	0	36
4" turbine	30.0	4.0	0	72	0	0	12	84
6" turbine	62.5	5.0	0	12	60	0	12	84
8" turbine	90.0	6.0	0	12	36	0	0	48
10" turbine	145.0	6.5	0	0	0	0	0	0
Parallel	?	?	0	0	0	0	0	0
Equiv Meters			244986	59801	13416	0	1110	319312
Equiv Services			235762	26498	1998	0	108	264366

ILLINOIS COMMERCE COMMISSION  
Cost of Service Study  
"Depreciation Expense Allocation"

Act. No.	Account	Utility Depreciation	Staff Alloc.	Net Cost	Base Cost	Extra Capacity	Max Hour	Billing	Customer Costs	Services	Free Services	Alloc. Code
	INTANGIBLE PLANT											
301	Organization	0	0	0	0	0	0	0	0	0	0	1
302	Franchise	0	0	0	0	0	0	0	0	0	0	1
303	Miscellaneous	0	0	0	0	0	0	0	0	0	0	1
304	Land and land rights	2,849	0	0	0	0	0	0	0	0	0	13
305	Structures and improvements	0	0	0	0	0	0	0	0	0	0	13
306	Collecting reservoirs	0	0	0	0	0	0	0	0	0	0	1
307	Intakes	0	0	0	0	0	0	0	0	0	0	2
308	Wells	0	0	0	0	0	0	0	0	0	0	2
309	Infiltration Galleries	0	0	0	0	0	0	0	0	0	0	2
310	Supply mains	0	0	0	0	0	0	0	0	0	0	2
311	Other plant	0	0	0	0	0	0	0	0	0	0	2
312	PUMPING PLANT	36,979	0	0	0	0	0	0	0	0	0	13
313	Land and land rights	0	0	0	0	0	0	0	0	0	0	13
314	Structures and improvements	0	0	0	0	0	0	0	0	0	0	13
315	Power Generation Equip.	0	0	0	0	0	0	0	0	0	0	12
316	Other power production	0	0	0	0	0	0	0	0	0	0	12
317	Steam pumping	0	0	0	0	0	0	0	0	0	0	12
318	Electrical Pumping	0	0	0	0	0	0	0	0	0	0	12
319	Diesel Pumping	0	0	0	0	0	0	0	0	0	0	12
320	Other Plant & Misc. Equip.	0	0	0	0	0	0	0	0	0	0	12
321	WATER TREATMENT PLANT	192,945	0	0	0	0	0	0	0	0	0	13
322	Land and land rights	0	0	0	0	0	0	0	0	0	0	13
323	Structures and improvements	0	0	0	0	0	0	0	0	0	0	13
324	Water treatment	0	0	0	0	0	0	0	0	0	0	2
325	Other Plant & Misc. Equip.	821,494	0	0	0	0	0	0	0	0	0	13
326	TRANSMISSION/DISTRIBUTION											
327	Land and land rights	0	0	0	0	0	0	0	0	0	0	13
328	Structures and improvements	0	0	0	0	0	0	0	0	0	0	13
329	Dist. reservoirs and standpipes	0	0	0	0	0	0	0	0	0	0	4
330	Mains	0	0	0	0	0	0	0	0	0	0	12
331	Services	0	0	0	0	0	0	0	0	0	0	7
332	Meters	0	0	0	0	0	0	0	0	0	0	6
333	Meter installations	0	0	0	0	0	0	0	0	0	0	6
334	Hydrants	0	0	0	0	0	0	0	0	0	0	8
335	Backflow Prevention Devices	0	0	0	0	0	0	0	0	0	0	7
336	Other Plant & Misc. Equip.	266,944	0	0	0	0	0	0	0	0	0	13
337	GENERAL PLANT											
338	Land and land rights	0	0	0	0	0	0	0	0	0	0	9
339	Structures and improvements	0	0	0	0	0	0	0	0	0	0	9
340	Office furniture	0	0	0	0	0	0	0	0	0	0	9
341	Transportation	0	0	0	0	0	0	0	0	0	0	9
342	Stores	0	0	0	0	0	0	0	0	0	0	9
343	Tools etc	0	0	0	0	0	0	0	0	0	0	9
344	Laboratory	0	0	0	0	0	0	0	0	0	0	9
345	Power oper and	0	0	0	0	0	0	0	0	0	0	9
346	Communications	0	0	0	0	0	0	0	0	0	0	9
347	Miscellaneous	0	0	0	0	0	0	0	0	0	0	9
348	Data Processing equip	0	0	0	0	0	0	0	0	0	0	9
349	RECONSTRUCTION	0	0	0	0	0	0	0	0	0	0	9
350	TOTAL DEPRECIATION	1,320,901	15,411	1,336,312	357,736	175,794	120,774	0	241,285	333,229	107,473	
	Allocation Code 9 Calculation	Cross check =		1,336,312	26.77%	13.16%	9.04%	0.00%	18.05%	24.94%	8.04%	100.00%

- 1 This code refers to allocations made 100 percent to Base Cost. Base Costs are costs which tend to vary with the quantity of water used and do not contain elements necessary to meet variations in demand.
- 2 This code refers to allocations divided between Base Cost and Extra Capacity Cost on the ratio of the average annual consumption per day to the maximum consumption on the Maximum Day. Extra Capacity costs are those costs associated with meeting rate of use requirements in excess of the average.
- 3 This code refers to allocations divided between Base Cost and Extra Capacity Cost on the ratio of the average annual consumption per day to the maximum hourly consumption.
- 4 This code refers to allocations made 100 percent to Extra Capacity - Maximum Hour.
- 5 This code refers to allocations made 100 percent to commercial costs associated with serving customers irrespective to the amount of water used or the maximum demand. They include meter reading, billing, customer accounting and collection expenses.
- 6 This code refers to allocations made 100 percent to maintenance and capital charges on customer meters.
- 7 This code refers to allocations made 100 percent to maintenance and capital charges on customer services.
- 8 This code refers to allocations made 100 percent to Fire Protection - Hydrants.
- 9 This code refers to allocations divided among various cost functions in the same ratio as the average allocation of plant in service as developed and shown on page 6 of 17 of this Schedule.
- 10 This code refers to allocations divided among various cost functions in the same ratio as the average allocation of operating and maintenance expenses has been allocated before administrative and general expenses and without considering fuel, power and chemical costs.
- 11 This code refers to allocations divided among various cost functions in the same ratio as the average allocation of labor costs if available or on the basis of Allocation Code 10 if not.
- 12 This code refers to allocations divided among Base Cost, Extra Capacity - Maximum Day and Extra Capacity - Maximum Hour.
- 13 This code refers to allocations divided among various cost functions in the same percentage ratio as the average of all items in that subgroup.



Customer	Hydrants	Total Cost*	Municipal Paid	Customer Surcharge	MONTHLY BILLS						Equiv.		Monthly Rates				Actual Surcharge Revenues	Hydrant Costs	Non-Hydrant Costs
					5/8"	3/4"	1"	1 1/2"	Fire Prot Bills	Fire Prot Bills	5/8"	3/4"	1"	1 1/2"					
Total	1,980	722,695	0	722,695	232,620	7,812	7,560	5,508	253,500	290,778	0.00	0.00	0.00	0.00			722,519	375,476	347,219
Outside	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
Kankakee	769	289,050	0	289,050	100,218	648	3,132	2,184	106,182	119,940	2.41	3.62	6.03	12.05			289,074	145,829	143,221
Limestone	64	20,507	0	20,507	6,512	192	60	12	6,776	7,010	2.93	4.40	7.33	14.65			20,541	12,137	8371
Kankakee 1	33	10,653	0	10,653	2,223	72	84	228	2,607	3,681	2.89	4.34	7.23	14.45			10,639	6,258	4,395
Bradley	463	173,018	0	173,018	56,755	3,960	1,332	1,068	63,115	71,365	2.42	3.63	6.05	12.10			172,703	87,801	85,217
Marion (C	57	13,739	0	13,739	60	456	60	312	888	2,454	5.60	8.40	14.00	28.00			13,742	10,809	2930
Bourbonnais	594	215,727	0	215,727	66,852	2,484	2,892	1,704	73,932	86,328	2.50	3.75	6.25	12.50			215,820	112,643	103,085
A	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
B	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
C	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
D	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
E	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
F	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
G	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
H	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
I	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
J	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
K	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
L	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
M	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
N	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
O	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
P	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
Q	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
R	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
S	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0
T	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00			0	0	0

\* Total cost = hydrant cost plus non-hydrant cost  
Hydrant Costs allocated on number of hydrants  
Non-hydrant Costs allocated on number of equivalent bills

## Schedule 11.03 k

**CONSUMERS ILLINOIS WATER COMPANY DOCKET NO. 00-0337  
TYPICAL RESIDENTIAL BILL COMPARISON (5/8 INCH METER)**

COMPANY STAFF

	CURRENT	PROPOSED	PROPOSED
FACILITIES CHARGE	\$10.00	\$10.50	\$110.50
USAGE CHARGE (CCF)	\$1.4210	\$1.8200	\$1.7500
(City Of Kankakee)			
FIRE SURCHARGE	\$1.59	\$1.93	\$2.34

USAGE		COMPANY		STAFF	
LINE 100'S	IN	CURRENT PROPOSED	DOLLAR PERCENT	PROPOSED	DOLLAR PERCENT
NO. CU. FT.	GALLONS	BILL	INCREASE	BILL	INCREASE
1	748	\$13.01	\$1.24	\$14.25	9.5%
2	1,496	\$14.43	\$1.64	\$16.07	11.4%
3	2,244	\$15.85	\$2.04	\$17.89	12.9%
4	2,992	\$17.27	\$2.44	\$19.71	14.1%
5	3,740	\$18.70	\$2.83	\$21.53	15.1%
6	4,488	\$20.12	\$3.23	\$23.35	16.1%
7	5,236	\$21.54	\$3.63	\$25.17	16.9%
8*	5,984	\$22.96	\$4.03	\$26.99	17.6%
9	6,732	\$24.38	\$4.43	\$28.81	18.2%
10	7,480	\$25.80	\$4.83	\$30.63	18.7%

\* Typical monthly residential usage